

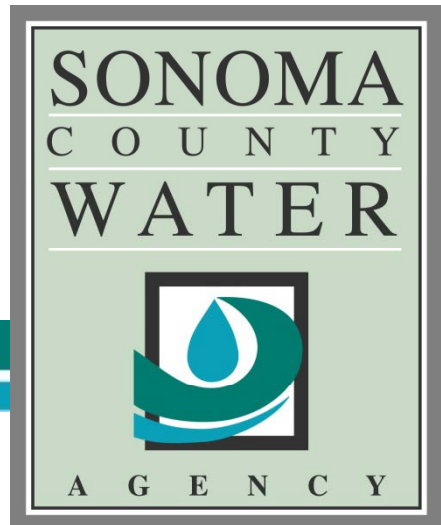
# Russian River Estuary Management



Jessica Martini-Lamb

Principal Environmental Specialist

[jessicam@scwa.ca.gov](mailto:jessicam@scwa.ca.gov)



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# Estuary Management Changes



# Year 3 Tasks Completed

- Adaptive management plan
- Beach topo
- CEQA and permits
- Jetty study plan
- Monitoring



# CEQA and Permits

- Draft EIR – December 2010
- Final EIR – August 2011
- Marine mammal IHA – April 2011
- Permits with federal & state agencies

# Jetty Study Plan Objectives

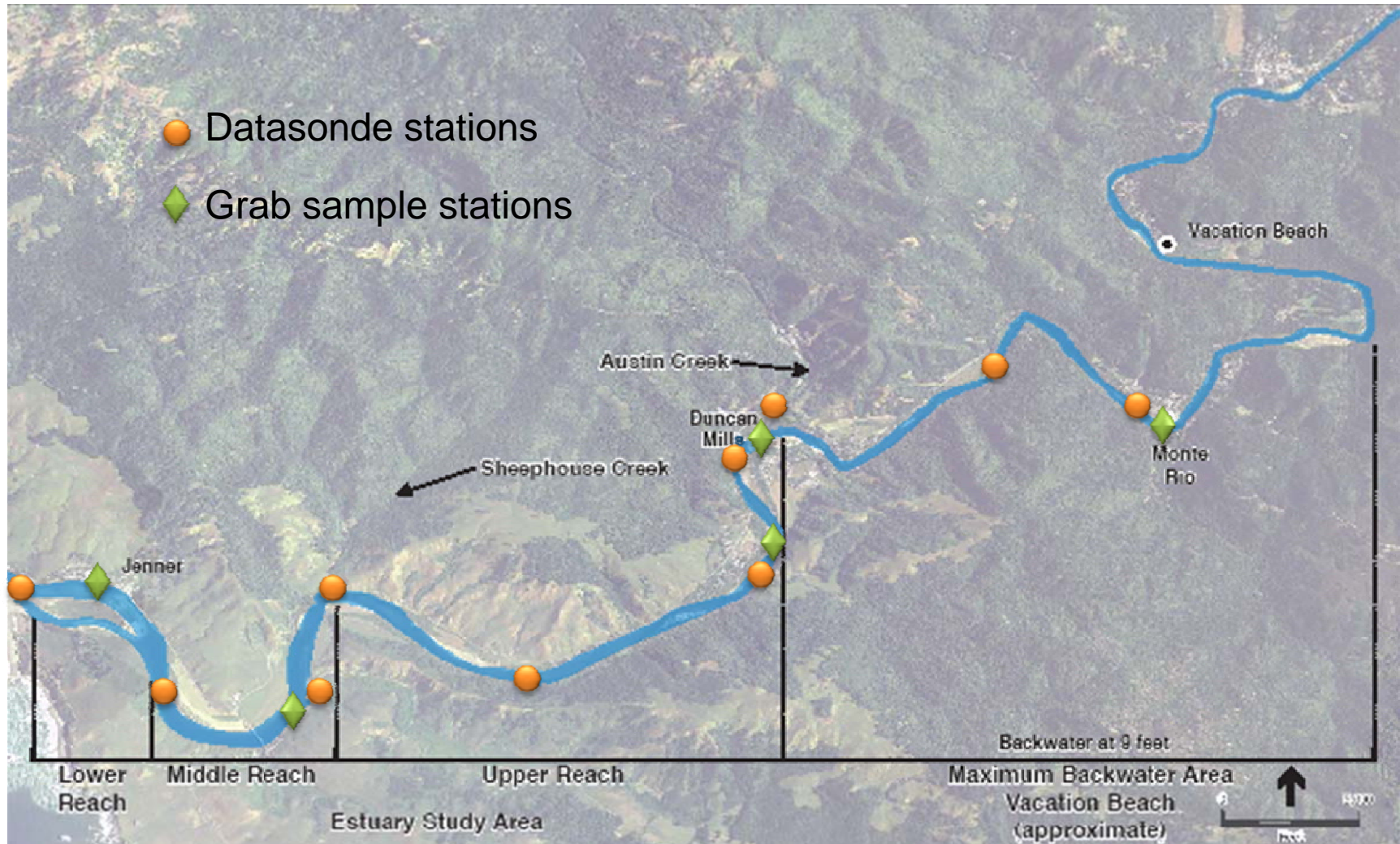
- Describe extent and composition of the jetty
- Understand its effects on the physical processes which partially determine lagoon water surface elevations
- Evaluate its role in flood risk
- Recommend approach for developing and analyzing alternatives that may help achieve target lagoon water surface elevations



# Monitoring

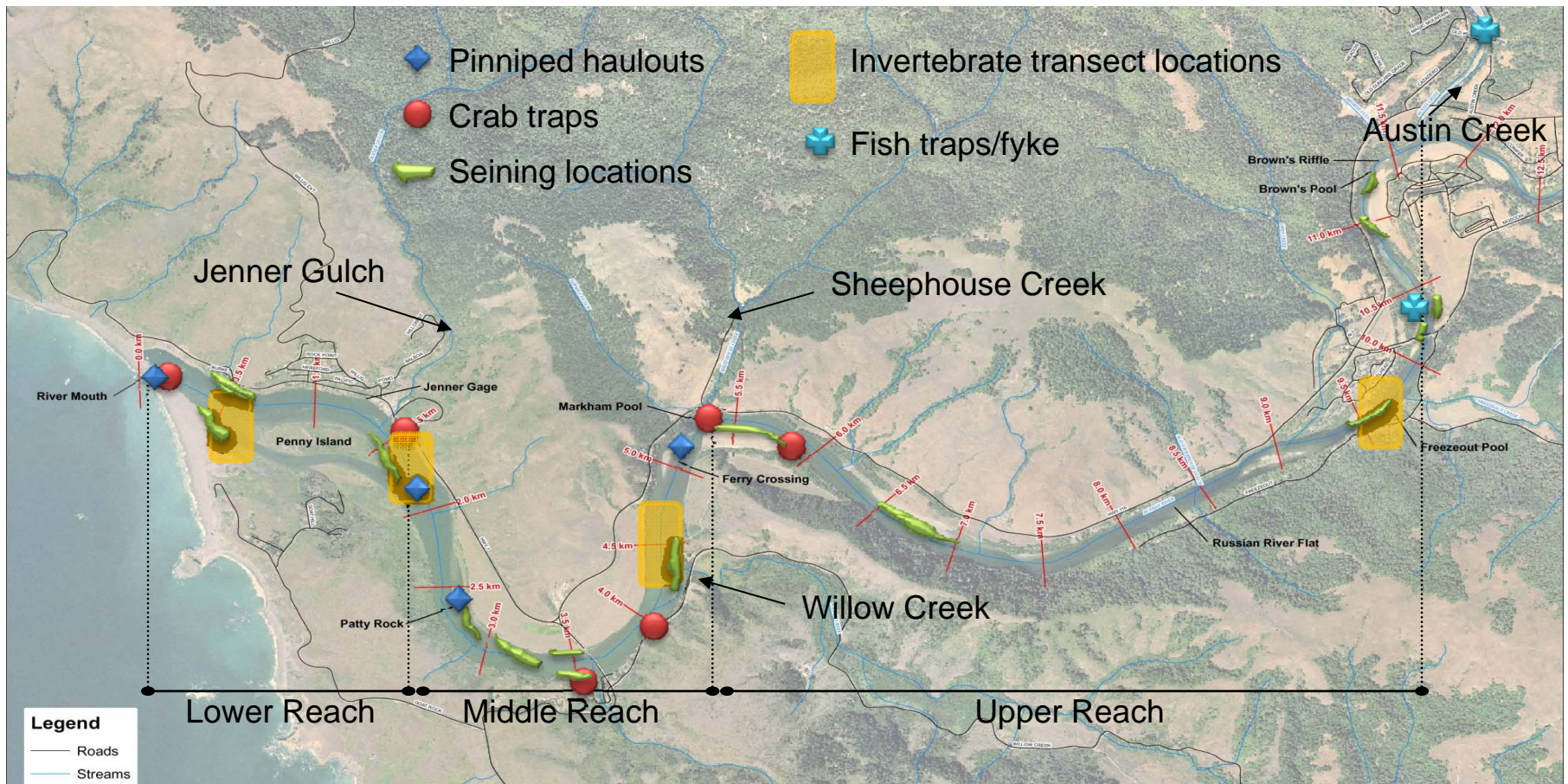


# Water Quality





# Russian River Estuary

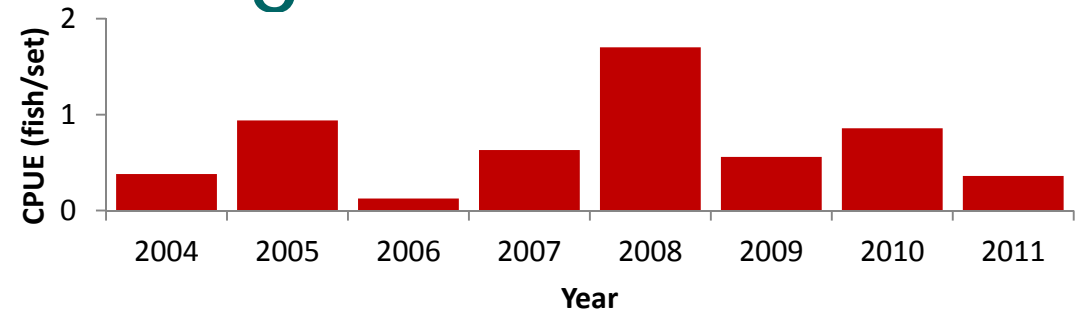




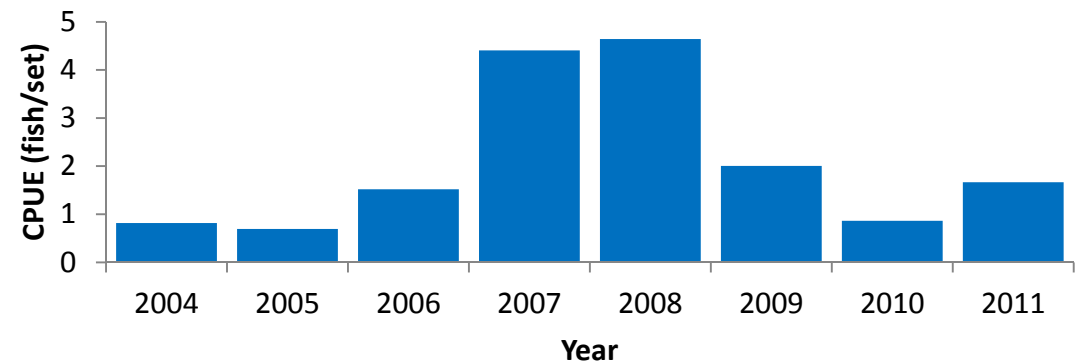
# Fisheries Monitoring

- Trends

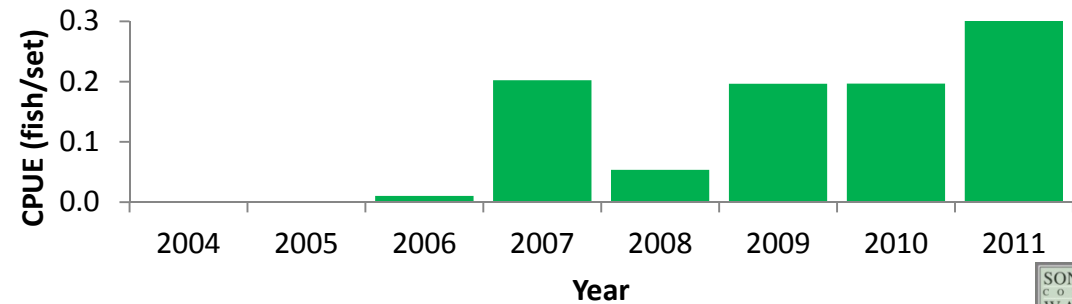
**Steelhead**



**Chinook Salmon**

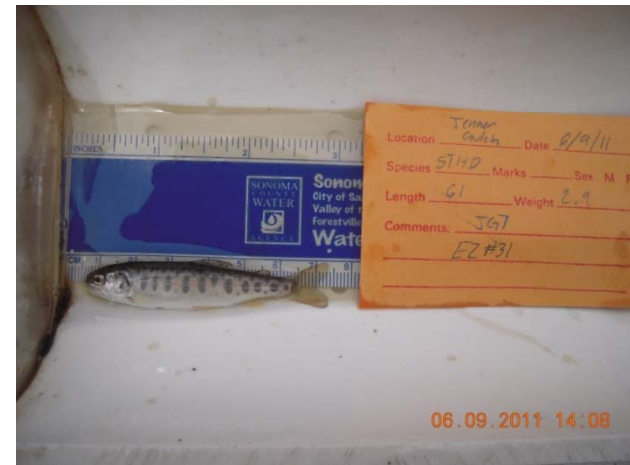


**Coho Salmon**



# Fisheries Monitoring

- Trends
- Juvenile captures



# Fisheries Monitoring

- Trends
- Juvenile captures
- Recaptures





# Invertebrates

- Response to change in Estuary condition
- Salmon prey
  - Distribution
  - Composition
  - Abundance



# Primary Steelhead Diet

Amphipods



*Eogammarus confervicolus*



*Americorophium spinicorne*

Isopods



*Gnorimosphaeroma insulare*

Mayflies

(no photo)

*Ephemeroptera* nymph

Midges



Chironomidae larva



Chironomidae adult

Photos: Jeff Cordell

# Year 4 Tasks

- Monitoring
- Adaptive management plan
- Permits
- Jetty study





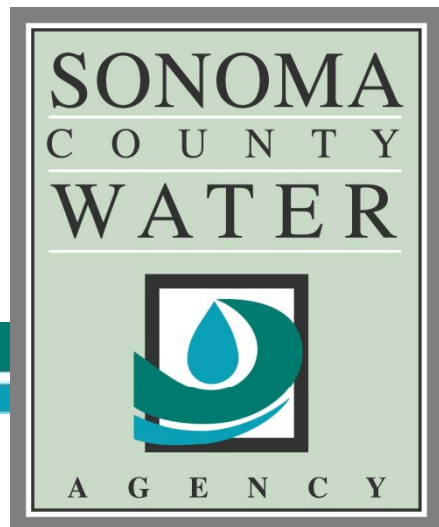
# Estuary Management Project



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[jessicam@scwa.ca.gov](mailto:jessicam@scwa.ca.gov)



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